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CRANE, JACOB L., JR.

"Bibliography on Street Thoroughfares." 1076.

"Definitions, General Principles, and Recommendations: Report of the Committee of the City Planning Division on Street Thoroughfares Manual." 1048.

"Relation of Street Thoroughfares to Other Arteries of Transportation." 1056.

CREAGER, WILLIAM P.

Security from under-seepage. 1273.

CROSBY, W. W.

"Bibliography on Street Thoroughfares." 1076.

"Definitions, General Principles, and Recommendations: Report of the Committee of the City Planning Division on Street Thoroughfares Manual." 1048.

CURRAN, CHARLES D.

River laboratory hydraulics. 177.

CURTIS, BENJAMIN JOHN.

Memoir of. 1642.

DAVEY, T. FARRANCE.

Some soil pressure tests. 27.

DAVIDSON, WILLIAM CLARENCE.

Memoir of. 1644.

DAVIS, ARTHUR POWELL.

Memoir of. 1582.

DAVIS, CALVIN V.

Security from under-seepage. 1294.

DEBLER, E. B.

Modifying the physiographical balance. 306.

DeBLOIS, KENNETH L.

Eccentric riveted connections. 1096.

Profiles for retaining walls. 1128.

DOUGHERTY, JOHN W.

Uplift and seepage under dams on sand. 1396.

DOWNER, JAY.

"Bibliography on Street Thoroughfares." 1076.

"Definitions, General Principles, and Recommendations: Report of the Committee of the City Planning Division on Street Thoroughfares Manual." 1048.

"Design of Boulevards and Parkways." 1060.

DRAFFIN, JASPER O.

Discharge formula for weirs. 414.

DRUCKER, M. A.

Analysis of sheet-pile bulkheads. 753.

Profiles for retaining walls. 1129.

DUBIN, EUGENE A.

"Eccentric Riveted Connections." 1086.

EATON, FREDERICK.

Memoir of. 1645.

EDWARDS, FRANK W.

River laboratory hydraulics. 163.

EGIAZAROFF, J. B.

River laboratory hydraulics. 178.

EIFFERT, C. H.

An approach to determinate stream flow. 370.
Security from under-seepage. 1299.

ELLIS, CHARLES A.

"Williot Equations for Statically Indeterminate Structures in Combination with Moment Equations in Terms of Angular Displacements." 580.

ENSLOW, LINN H.

Formation of floc by ferric coagulants. 279.

EREMIN, A. A.

Deflection theory for suspension bridges. 1185.
Experiments with concrete in torsion. 980.
Wave pressures on sea-walls and breakwaters. 1009.
Williot equations for statically indeterminate structures. 604.

ERICSON, ERIC GUSTAF.

Memoir of. 1648.

FAUDE, FREDERIC MORRIS.

Memoir of. 1762.

FELD, JACOB.

Analysis of sheet-pile bulkheads. 741.
Deflection theory for suspension bridges. 1178.
Some soil pressure tests. 26.

FERGUSON, HARRY FOSTER.

Memoir of. 1763.

FINEBAUM, HARRY JACOB.

Memoir of. 1649.

FINLAY, A. H.

Stresses in space structures. 942.

FISCHER, A. W.

Deflection theory for suspension bridges. 1197.
Experiments with concrete in torsion. 969.

FLORIS, A.

Articulated buttress dams. 84.

FOSTER, H. ALDEN.

Rainfall studies for New York, N. Y. 628.

FOSTER, WALTER LINDER. *Geotechnical Engineering* 1
Memoir of. 1651.

FOWLER, CHARLES E. *Geotechnical Engineering* 1
Wave pressures on sea-walls and breakwaters. 1003.

FRANKLAND, F. H. *A Seminar Series* 1
Deflection theory for suspension bridges. 1190.

FRANKLAND, J. M. *Geotechnical Engineering* 1
Deflection theory for suspension bridges. 1201.

FRANZIUS, E. H. O. *Geotechnical Engineering* 1
Analysis of sheet-pile bulkheads. 771.

FREDERICK, W. R., JR. *Geotechnical Engineering* 1
Deflection theory for suspension bridges. 1215.

FRENCH, J. B. *Geotechnical Engineering* 1
Lincoln Highway in New Jersey. 116.

FROEHLICH, O. K. *Geotechnical Engineering* 1
Some soil pressure tests. 21.

FULLER, GEORGE WARREN. *Geotechnical Engineering* 1
Memoir of. 1653.

FURUICHI, KOI. *Geotechnical Engineering* 1
Memoir of. 1595.

GIBBS, ELBERT ALLAN. *Geotechnical Engineering* 1
Memoir of. 1765.

GILKEY, H. J. *Geotechnical Engineering* 1
Experiments with concrete in torsion. 970.

GODFREY, EDWARD. *Geotechnical Engineering* 1
Uplift and seepage under dams on sand. 1386.

GODFREY, H. J. *Geotechnical Engineering* 1
"Investigation of Web Buckling in Steel Beams." 675.

GOODWIN, ELMER CLARK. *Geotechnical Engineering* 1
Memoir of. 1767.

GORE, WILLIAM. *Geotechnical Engineering* 1
Memoir of. 1660.

GRADY, JOHN FRANCIS.

Memoir of. 1768.

GREEN, NORMAN B.

"Flexible 'First-Story' Construction for Earthquake Resistance." 645.

GREGORY, R. L.

An approach to determinate stream flow. 372.

GRIFFITH, W. M.

Security from under-seepage. 1280.

GRINTER, L. E.

Stresses in space structures. 936.

GRONQUIST, C. H.

Deflection theory for suspension bridges. 1214.

GROVER, WILLIAM ALBERT.

Memoir of. 1662.

GRUNSKY, CARL EWALD.

Memoir of. 1591.

GUMENSKY, D. BENJAMEN.

Flow of water around bends in pipes. 1033.

HALL, JOHN WENDELL.

Memoir of. 1663.

HALLIHAN, J. P.

"Bibliography on Street Thoroughfares." 1076.

"Definitions, General Principles, and Recommendations: Report of the Committee of the City Planning Division on Street Thoroughfares Manual." 1048.

"Super-Highways." 1062.

HALMOS, EUGENE E.

Some soil pressure tests. 17.

HARDER, E. H.

"Final Report of the Special Committee on Concrete and Reinforced Concrete Arches." 1427.

HARNEY, FRANCIS VINCENT.

Memoir of. 1770.

HARROLD, L. L.

An approach to determinate stream flow. 384.

HARTMANN, E. C.

Web buckling in steel beams. 696.

HARZA, L. F.

St. Lawrence power development. 547.

Security from under-seepage. 1275.

"Uplift and Seepage Under Dams on Sand." 1352.

HATCH, HARRY H.

Uplift and seepage under dams on sand. 1395.

HATFIELD, W. D.

Formation of floc by ferric coagulants. 278.

HATTON, THOMAS CHALKLEY.

Memoir of. 1665.

HEBERT, DONALD J.

Security from under-seepage. 1285.

Uplift and seepage under dams on sand. 1396.

HERROLD, GEORGE H.

"Bibliography on Street Thoroughfares." 1076.

"Definitions, General Principles, and Recommendations: Report of the Committee of the City Planning Division on Street Thoroughfares Manual." 1048.

"Paying for Street Thoroughfares." 1068.

"Street Thoroughfares: Foreword." 1046.

HILL, HIBBERT M.

Uplift and seepage under dams on sand. 1386.

HILL, JOHN EDWARD.

Memoir of. 1667.

HILLMAN, GEORGE WALDO.

Memoir of. 1771.

HIRSCHTHAL, M.

Some soil pressure tests. 43.

Tests of multiple-span arch bridges. 465.

HODGMAN, BURT BRADLEY.

Memoir of. 1672.

HOGG, T. H.

St. Lawrence power development. 517.

HOOPER, ELMER GUY.

Memoir of. 1673.

HOPKINS, EDWARD S.

Formation of floc by ferric coagulants. 277.

HORNER, W. W.

An approach to determinate stream flow. 368.

"Bibliography on Street Thoroughfares." 1076.

"Definitions, General Principles, and Recommendations: Report of the Committee of the City Planning Division on Street Thoroughfares Manual." 1048.

"Thoroughfare Layouts in Relation to Drainage Systems." 1064.

HOSMER, GEORGE LEONARD.

Memoir of. 1676.

HOUSTON, JOHN JAY LAFAYETTE.

Memoir of. 1772.

HOWE, GEORGE EDWARD.

Memoir of. 1677.

HOYT, W. G.

An aproach to determinate stream flow. 384.

JAMESON, JOHN ALEXANDER, JR.

Memoir of. 1789.

JANNI, A. C.

"Final Report of the Special Committee on Concrete and Reinforced Concrete Arches." 1427.

Model of Calderwood Dam. 227.

JARVIS, C. S.

An approach to determinate stream flow. 363.

Modifying the physiographical balance. 315.

JOHANNESSEN, SIGVALD.

"Lincoln Highway from Jersey City to Elizabeth, New Jersey." 91.

JOHNSON, GEORGE ARTHUR.

Memoir of. 1678.

JOHNSON, LEE H.

Flexible first-story construction. 653.

JOHNSON, OLIVER BERTRAND.

Memoir of. 1790.

JOHNSTON, GUY ROBERT.

Memoir of. 1681.

JOHNSTON, STERLING.

Deflection theory for suspension bridges. 1210.

JONES, JONATHAN.

Deflection theory for suspension bridges. 1174.
Eccentric riveted connections. 1097.

JONGE, A. E. R. de.

Eccentric riveted connections. 1099.

JORGENSEN, LARS R.

Model of Calderwood Dam. 224.

JUSTIN, JOEL D.

Security from under-seepage. 1276.
Uplift and seepage under dams on sand. 1388.

KARPOV, A. V.

"Model of Calderwood Arch Dam." 185.

KARTZKE, PAUL L.

Flexible first-story construction. 660.

KEAYS, R. H.

Sand movement in fluvial models. 848.

KENNEDY, ROBERT E.

Security from under-seepage. 1320.

KERNOT, MAURICE EDWIN.

Memoir of. 1683.

KHOSLA, A. N.

Security from under-seepage. 1320.

KIDDLE, ALFRED WATTS.

Memoir of. 1796.

KING, HENRY R.

Activated sludge aeration channels. 573.

KING, WARREN RAYMOND.

Memoir of. 1775.

KIRBY, ISAAC HENRY.

Memoir of. 1776.

KLEGERMAN, M. H.

Activated sludge aeration channels. 575.

KNAPP, F.

Reservoirs for flood control. 917.

KRAMER, HANS.

"Sand Mixtures and Sand Movement in Fluvial Models." 798.

KRIEGSHABER, VICTOR HUGO.

Memoir of. 1685.

KRYNINE, D. P.

Analysis of sheet-pile bulkheads. 766.

Some soil pressure tests. 30.

LANE, E. W.

"Security from Under-Seepage—Masonry Dams on Earth Foundations." 1235.

LANG, OLIVER HOWARD.

Memoir of. 1687.

LANGFITT, WILLIAM CAMPBELL.

Memoir of. 1688.

LANSFORD, WALLACE M.

Flow of water around bends in pipes. 1036.

LAVIS, FRED.

Lincoln Highway in New Jersey. 115.

LEE, W. S.

St. Lawrence power development. 531.

LEEDS, CHARLES T.

Wave pressures on sea-walls and breakwaters. 1004.

LEIGHLY, JOHN.

Sand movement in fluvial models. 839.

LINDENTHAL, GUSTAV.

Deflection theory for suspension bridges. 1190.

LINDLEY, E. S.

Profiles for retaining walls. 1128.

LIPPINCOTT, J. B.

Modifying the physiographical balance. 328.

LOHMEYER, E.

Analysis of sheet-pile bulkheads. 776.

LYSE, INGE.

"Investigation of Web Buckling in Steel Beams." 675.

McCLAIN, JAMES BROWNSON.

Memoir of. 1778.

McCLINTOCK, JAMES ROBINSON.

Memoir of. 1693.

McCULLOUGH, C. B.

Tests of multiple-span arch bridges. 455.

McGOVERN, PATRICK.

Memoir of. 1791.

MCLEAN, ARCHIBALD.

Memoir of. 1694.

McMILLAN, W. BRUCE.

Discharge formula for weirs. 415.

MAHONY, ARTHUR SAWYER.

Memoir of. 1778.

MANN, CARROLL L., JR.

Tests of multiple-span arch bridges. 461.

MATTHES, GERARD H.

Modifying the physiographical balance. 326.

Reservoirs for flood control. 919.

Sand movement in fluvial models. 844.

MAVIS, F. T.

Flow of water around bends in pipes. 1040.

Sand movement in fluvial models. 849.

MEAD, DANIEL W.

"Water-Power Development of the St. Lawrence River." 498.

MEEM, J. C.

Some soil pressure tests. 14.

MENSCH, L. J.

Deflection theory for suspension bridges. 1185.

MILLER, L. B.

Formation of floc by ferric coagulants. 279.

MIRABELLI, E.

Experiments with concrete in torsion. 961.

MITCHELL, A.

Deflection theory for suspension bridges. 1209.

MOCKMORE, C. A.

Uplift and seepage under dams on sand. 1396.

MOISSEIFF, LEON S.

Deflection theory for suspension bridges. 1205.

Williot equations for statically indeterminate structures. 601.

MOLITOR, DAVID A.

"Wave Pressures on Sea-Walls and Breakwaters." 984.

MONTES, JOSE GARCIA, JR.

Rainfall studies for New York, N. Y. 638.

MOORE, R. L.

Web buckling in steel beams. 696.

MOORE, THOMAS VINCENT.

Memoir of. 1780.

MORRIS, CLYDE T.

"Final Report of the Special Committee on Concrete and Reinforced Concrete Arches." 1427.

MORSE, CLINTON.

"Renewal of Miter-Gate Bearings, Panama Canal." 471.

MÜLLENHOFF, A.

Deflection theory for suspension bridges. 1175.

MURPHY, EDWARD CHARLES.

Memoir of. 1697.

NAGLER, FLOYD A.

"Flow of Water Around Bends in Pipes." 1018.

Memoir of. 1698.

NETLAND, LARS.

Memoir of. 1701.

NICHOLS, K. D.

River laboratory hydraulics. 159.

NICHOLSON, MAURY.

Memoir of. 1702.

NUEBLING, EMIL LOUIS.

Memoir of. 1704.

O'BRIEN, MORROUGH P.

Sand movement in fluvial models. 858.

O'HARA, FRANCIS JOSEPH.

Memoir of. 1706.

O'ROURKE, JOHN FRANCIS.

Memoir of. 1707.

OSGOOD, WILLIAM R.

Stresses in space structures. 935.

O'SHAUGHNESSY, MICHAEL MAURICE.

Memoir of. 1710.

PARKIN, G. T.

Deflection theory for suspension bridges. 1209.

PARSONS, H. de B.

"Some Soil Pressure Tests." 1.

PATTY, I. H.

River laboratory hydraulics. 166.

PAVLO, E. L.

Deflection theory for suspension bridges. 1171.

PENNOYER, RAYMOND P.

Analysis of sheet-pile bulkheads. 761.

PIERCE, GEORGE ABEL.

Memoir of. 1781.

PIPPARD, A. J. SUTTON.

"Determination of Trapezoidal Profiles for Retaining Walls." 1116.

POST, CHESTER L.

Wave pressures on sea-walls and breakwaters. 1010.

POTTER, ALEXANDER.

Security from under-seepage. 1318.

POTTER, WILLIAM BANCROFT.

Memoir of. 1713.

POWELL, RALPH W.

River laboratory hydraulics. 155.

PRICHARD, HENRY SEWALL.

Memoir of. 1716.

PROBST, E.

Model of Calderwood Dam. 244.

PUTNAM, RUFUS W.

St. Lawrence power development. 539.

RANDOLPH, E. S.

Renewal of miter-gate bearings, Panama Canal. 496.

REYNOLDS, KENNETH C.

River laboratory hydraulics. 170.

RICE, HERBERT ALLAN.

Memoir of. 1783.

RICKEY, JAMES W.

St. Lawrence power development. 540.

RINDLAUB, BRUCE D.

Sand movement in fluvial models. 858.

RIPLEY, THERON M.

St. Lawrence power development. 529.

RITCHIE, JAMES.

Memoir of. 1718.

ROGERS, CLARENCE MORD.

Memoir of. 1719.

ROWE, W. P.

Modifying the physiographical balance. 317.

ROZMAN, ARMIN.

Eccentric riveted connections. 1097.

RULE, RHODES E.

Modifying the physiographical balance. 335.
Rainfall studies for New York, N. Y. 640.

RUSSELL, FRANK M.

Experiments with concrete in torsion. 964.

SANSBURY, WALTER E.

"Formation of Floc by Ferric Coagulants." 263.

SCHOFIELD, HIRAM ABIFF.

Memoir of. 1721.

SEAVER, CLIFFORD.

Rainfall studies for New York, N. Y. 634.

SESSIONS, EDSON OLIVER.

Memoir of. 1785.

SEUROT, PAUL ALBERT NICOLAS.

Memoir of. 1723.

SHAW, GEORGE HARRY THORNTON.

Memoir of. 1728.

SIMONDS, A. W.

Model of Calderwood Dam. 220.

SHERMAN, CHARLES W.

Rainfall studies for New York, N. Y. 630.

SHERMAN, LeROY K.

An approach to determinate stream flow. 365.

SHIELDS, JULIAN W.

Deflection theory for suspension bridges. 1195.

SHIFRIN, H.

Street thoroughfares. 1079.

SHULITS, SAMUEL.

River laboratory hydraulics. 175.

SLADE, J. J., JR.

Rainfall studies for New York, N. Y. 628.

SLATER, JOSEPH MANSFIELD.

Memoir of. 1733.

SMALL, KENNETH IRVING.

Memoir of. 1734.

SMITH, ELDRED D.

Model of Calderwood Dam. 235.

SMITH, WALTER M.

St. Lawrence power development. 541.

SMITS, HOWARD G.

Flexible first-story construction. 662.

SNYDER, F. F.

An approach to determinate stream flow. 384.

SONDEREGGER, A. L.

"Modifying the Physiographical Balance by Conservation Measures." 284.

SPEIDEN, THEODORE.

Memoir of. 1735.

SPOFFORD, CHARLES M.

Stresses in space structures. 941.

SPRAGUE, FRANK JULIAN.

Memoir of. 1736.

STANLEY, C. MAXWELL.

Reservoirs for flood control. 914.

STEINMAN, D. B.

"A Generalized Deflection Theory for Suspension Bridges." 1133.

STEVENS, J. C.

Modifying the physiographical balance. 324.

STIERLIN, GUSTAVE ARNOLD.

Memoir of. 1741.

STRAUB, LORENZ G.

River laboratory hydraulics. 145.

Sand movement in fluvial models. 867.

STREIFF, A.

Security from under-seepage. 1325.

SUTHERLAND, R. A.

Articulated buttress dams. 70.

TAYLOR, E. MCKENZIE.

Security from under-seepage. 1283.

TCHIKOFF, V. V.

River laboratory hydraulics. 170.
Sand movement in fluvial models. 852.

TEMPLIN, R. L.

"Model of Calderwood Arch Dam." 185.

TERZAGHI, CHARLES.

Some soil pressure tests. 35.
Uplift and seepage under dams on sand. 1391.

THACKWELL, H. L.

Activated sludge aeration channels. 567.
Some soil pressure tests. 24.

THOMAS, BURTIS PAUL.

Memoir of. 1787.

THOMPSON, PAUL W.

River laboratory hydraulics. 151.
Sand movement in fluvial models. 342.

THOMPSON, RALPH PENNY.

Memoir of. 1788.

TIFFANY, JOSEPH B., JR.

Sand movement in fluvial models. 861.

TOWNSEND, DARWIN WADSWORTH.

"Loss of Head in Activated Sludge Aeration Channels." 558.

TSAI, FANG-YIN.

Eccentric riveted connections. 1103.

TUDOR, RALPH A.

Deflection theory for suspension bridges. 1179.
Williot equations for statically indeterminate structures. 599.

TURNER, DANIEL L.

"Bibliography on Street Thoroughfares." 1076.
"Definitions, General Principles, and Recommendations: Report of the Committee of the City Planning Division on Street Thoroughfares Manual." 1048.
"Express Highways and By-Pass Routes." 1066.

TURNER, LESLIE.

Experiments with concrete in torsion. 967.

TUTTLE, ARTHUR S.

"The Development of the American Society of Civil Engineers." Address at the Annual Convention, Los Angeles, California, July 3, 1935. 1407.

VAN CLEVE, AARON HOWELL.

Memoir of. 1742.

VARS, ALEXANDER WILSON.

Memoir of. 1746.

VAUGHN, R. L.

Analysis of sheet-pile bulkheads. 744.
Some soil pressure tests. 39.

VEEDER, HERMAN GREIG, JR.

Memoir of. 1790.

VOGEL, HERBERT D.

"Practical River Laboratory Hydraulics." 118.
Sand movement in fluvial models. 860.

VOGT, FREDRIK.

Deflection theory for suspension bridges. 1204.

von KARMAN, THEODOR.

Analysis of sheet-pile bulkheads. 774.

VOORHEES, ISAAC SPURR.

Memoir of. 1748.

WALDROP, JOHN DOUGLAS.

Memoir of. 1749.

WEIGAND, EDWIN JOHN.

Memoir of. 1754.

WERNER, P. WILHELM.

Articulated buttress dams. 71.
Model of Calderwood Dam. 231.

WERTHEIMER, ALBERT.

Eccentric riveted connections. 1095.

WESSMAN, HAROLD E.

Deflection theory for suspension bridges. 1213.

WHITE, MERIT P.

Flexible first-story construction. 660.

WILCOXEN, L. C.

Some soil pressure tests. 19.

WILLIAMS, CHARLES P.

Articulated buttress dams. 76.

WILLIAMS, GORDON R.

An approach to determinate stream flow. 383.

WILLIAMS, H. A.

Flexible first-story construction. 665.

WILLIS, PAUL.

Memoir of. 1756.

WILSON, HERBERT ALVA.

Memoir of. 1757.

WILSON, WILBUR M.

"Final Report of the Special Committee on Concrete and Reinforced Concrete Arches." 1427.

"Laboratory Tests of Multiple-Span Reinforced Concrete Arch Bridges." 424.

WOOD, HOWARD C.

Deflection theory for suspension bridges. 1179.

WOODRUFF, GLENN B.

Deflection theory for suspension bridges. 1179.

YARNELL, DAVID L.

"Flow of Water Around Bends in Pipes." 1018.

YATES, WILLIAM H.

Deflection theory for suspension bridges. 1222.

YOUNG, HUGH E.

Street thoroughfares. 1083.

